

Claims

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1. A peptide consisting of at least one sub-fragment of the human S-100β polypeptide comprising from 6 to 38 amino acids, where said sub-fragments show at least 90% homology with the sequence

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SELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINN (SEQ. ID. NO. 2)

and/or the amino acid sequence

TACHEFFEHE (SEQ) ID. NO. 3)

and retain essentially the same immunological properties.

2. A peptide according to claim 1 characterized in that the sub-fragments are derived from the amino acid sequence:

SELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINN (SEQ. ID. NO. 2).

20 3. A peptide according to claim 2, which is

REGDKHKLKK (SEQ. ID. NO. 5);

DKHKLKKSEL (SEQ. II). NO. 7); of

KLKKSELKEL (SEQ. ID. NO. 8).

4. A peptide according to claim 1, characterized in that the sub-fragments are derived from the amino acid sequence:

TACHEFFEHE (SEQ. ID. NO. 3)

5. A peptide according to claim 4, which is

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- 6. A peptide according to claim 1, characterized in that it consists of at least one sub-fragment derived from the sequence according to SEQ. ID. NO. 2 and at least one sub-fragment derived from the sequence according to SEQ. ID. NO. 3.
- 7. A monoclonal antibody or a fragment of such an antibody specifically binding a peptide according to anyone of the preceding claims.
- 8. A monoclonal antibody or an antibody fragment according to claim 7, specifically binding a peptide according to claim 2.
 - 9. A monoclonal antibody or an antibody fragment according to claim 7, specifically binding a peptide according to claim 4.
 - 10. Use of a monoclonal antibody or an antibody fragment according to anyone of claims 7-9 in immunological assay methods.
 - 11. Use of a peptide according to anyone of claims 1-6 for eliciting antibodies.
 - 12. Use of a peptide according to anyone of claims 1 6 in immunological assay methods.
- 13. A method of determining the presence of human S-100β polypeptide in a sample comprising the steps of:

letting the sample to be analyzed immunologically react with a first monoclonal antibody according to claim 8, said first antibody being coupled to a carrier;

letting the sample immunologically react with a second monoclonal antibody according to claim 9, said second monoclonal antibody being provided with detection means;

Washing;\and

detecting the amount of S-100\beta polypeptide in the sample.

- 14. A method according to claim 13 where the detection means is a group having the ability of emitting luminescence.
 - 15. A method according to claim 14, where the carrier is a magnetic particle.
- 16. A kit for determining the presence of human S-100β polypeptide in a sample,
 10 comprising a peptide according to anyone of claims 1 6 and/or an antibody according to anyone of claims 7 9.
 - 17. A kit according to claim 16 comprising a first monoclonal antibody according to claim 8 and a second monoclonal antibody according to claim 9, said first monoclonal antibody being coupled to a carrier and said second monoclonal antibody being provided with a detection means.
 - 18. A kit according to claim 17, wherein said carrier is a magnetic particle and said detection means is a group having the ability of emitting luminescence, such as luminol.

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